

$$(1) \quad \begin{cases} 4x - y - 2 = -5 & \dots \dots \textcircled{1} \\ 2x + 2y = 3y + 1 & \dots \dots \textcircled{2} \end{cases}$$

$$(x, y) = ( \quad , \quad )$$

$$(2) \quad \begin{cases} -3x + 5y - 6 = 15 & \dots \dots \textcircled{1} \\ -6x - 5y = -5x - 7y + 8 & \dots \dots \textcircled{2} \end{cases}$$

$$(x, y) = ( \quad , \quad )$$

$$(3) \quad \begin{cases} -2x - (-5x + y) = 12 & \dots \dots \textcircled{1} \\ 11x - 6y = 2(5x - 4y) + 18 & \dots \dots \textcircled{2} \end{cases}$$

$$(x, y) = ( \quad , \quad )$$

$$(4) \quad \begin{cases} -0.1x - 0.7y = 7.5 & \dots \dots \textcircled{1} \\ \frac{4}{5}x + \frac{3}{2}y = -19 & \dots \dots \textcircled{2} \end{cases}$$

$$(x, y) = ( \quad , \quad )$$

## 解 答

整理して

$$(1) \quad \left\{ \begin{array}{l} 4x - y = -3 \\ 2x - y = 1 \end{array} \right. \quad \cdots \textcircled{1}, \cdots \textcircled{2}$$

$$\begin{array}{r} \textcircled{1}' - \textcircled{2}' \\ 4x - y = -3 \\ -) 2x - y = 1 \\ \hline 2x = -4 \\ x = -2 \end{array}$$

①に代入

$$\begin{array}{rcl} 4 \times (-2) - y & = & -3 \\ y & = & -5 \end{array}$$

$$(x, y) = (-2, -5)$$

整理して

$$(2) \quad \left\{ \begin{array}{l} -3x + 5y = 21 \\ -x + 2y = 8 \end{array} \right. \quad \cdots \textcircled{1}, \cdots \textcircled{2}$$

$$\begin{array}{r} \textcircled{1}' - \textcircled{2}' \times 3 \\ -3x + 5y = 21 \\ -) -3x + 6y = 24 \\ \hline -y = -3 \\ y = 3 \end{array}$$

①に代入して

$$\begin{array}{rcl} -3x + 5 \times 3 & = & 15 \\ x & = & -2 \end{array}$$

$$(x, y) = (-2, 3)$$

整理して

$$(3) \quad \left\{ \begin{array}{l} 3x - y = 12 \\ x + 2y = 18 \end{array} \right. \quad \cdots \textcircled{1}, \cdots \textcircled{2}$$

$$\begin{array}{r} \textcircled{1}' \times 2 + \textcircled{2}' \\ 6x - 2y = 24 \\ +) x + 2y = 18 \\ \hline 7x = 42 \\ x = 6 \end{array}$$

①に代入

$$6 \times 6 - 2y = 24$$

$$y = 6$$

$$(x, y) = (6, 6)$$

整理して

$$(4) \quad \left\{ \begin{array}{l} -x - 7y = 75 \\ 8x + 15y = -190 \end{array} \right. \quad \cdots \textcircled{1}, \cdots \textcircled{2}$$

$$\begin{array}{r} \textcircled{1}' \times 8 + \textcircled{2}' \\ -8x - 56y = 600 \\ +) 8x + 15y = -190 \\ \hline -41y = 410 \\ y = -10 \end{array}$$

①に代入

$$-8x - 56 \times (-10) = 600$$

$$x = -5$$

$$(x, y) = (-5, -10)$$